	XX	AAAAA AAAAA AA AA AA AA AA AA A	MM MM MM MM MM MM MMM MMM MM MM MM MM MM MM	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	LL		\$
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LPF

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FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	000000 00 00 00 00	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR						

.....

1 *

!file: TESTLABIO.FOR Version 'V04-000'

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Tests the LABIO system by allocating upto 16 channels ! Enter the number of channels, rate, and buffer size

Program TEST_LABIO

include 'LABCHNDEF.FOR'

Parameter MBX_NAME = 'TEST_LABIO2' Character * 130 RETURN Character * 15 COMMAND Character*24 DATE_TIME Logical*4 SUCCESS,SYS\$CREMBX Integer * 4 TEST_CHAN, TEST_RATE, TEST_BUF_SIZE

Map To the Global Data Base and the event flags

Call LABIO_INIT(0)

Open Mailbox to LABIO_CONNECT

Open (Unit = 1, Name = 'LABIO_CONNECT' , Type = 'OLD')

(reate Mailbox for response from LABIO_CONNECT

! Open via FORTRAN

```
Open ( Unit = 2, Name = MBX_NAME, Type = 'OLD' )
  Deassign the channel assigned when we created it
          Call SYS$DASSGN( XVal(MBX_CHANNEL) )
  Connect to the LABIO system
          COMMAND = 'CONNECT'
          Write(1,100) COMMAND, MBX_NAME
  Wait for Response from LABIO system
          Read(2,200) RETURN_CODE, RETURN
          If ( RETURN_CODE .ne. 0 ) Go To 99
                                                              !Failed to connect!
  Get parameters from operator
          LAST_TEST_CHAN=TEST_CHAN
Type 600, Enter number of channels, rate(in tics), and buffer size'
Accept 700, TEST_CHAN, TEST_RATE, TEST_BUF_SIZE
If ( TEST_CHAN .eq. 0 ) CATL Exit(1)
10
  Deallocate Channels from last time
          Do 20 AD_CHANNEL=1,LAST_TEST_CHAN
          Call SYS$CLREF(%Val(EF_ACTIVITY_OFF+AD_CHANNEL)) !Stop Acq.
Call SYS$SETEF(%Val(EF_NOTIFY_OFF+AD_CHANNEL))
          COMMAND = 'DEALLOCATE'
Write(1,400) COMMAND, AD_CHANNEL
Read(2,200) RETURN_CODE, RETURN
If( RETURN_CODE .ne. 0 )
           Type 500, 'Deallocation failure', RETURN_CODE, RETURN
20
          Continue
  Allocate Channels
          Do 30 AD_CHANNEL=1,TEST_CHAN
          COMMAND = 'ALLOCATE'
Write(1,400) COMMAND, AD_CHANNEL, TEST_RATE, TEST_BUF_SIZE, O
Read(2,200) RETURN_CODE, RETURN
          If ( RETURN_CODE .ne. 0 )
          1 Type 500, 'Allocation failure', RETURN_CODE, RETURN
  Enable data acquisition by setting event flag ACTIVITY and NOTIFY
          Call SYS$SETEF(%Val(EF_ACTIVITY_OFF+AD_CHANNEL))
30
          Call SYS$SETEF(XVal(EF_NOTIFY_OFF+AD_CHANNEL))
          Go To 10
  Connect failure
```

```
Type 500, 'Connect failure', RETURN_CODE, RETURN
Go To 10

Format('', A, A)
Format(12, A)
Format(', A, 41)
Format(A/'', 12, A)
Format(A)
Format(3110)
End
```

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